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1 [CMAPS: a cosynthesis methodology for application-oriented parallel systems](#)
[Pao-Ann Hsiung](#)
 January 2000

Volume 5 Issue 1

Publisher: ACM

 Full text available: [Pdf](#) (209.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [terms](#)
Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 30, Citation Count: 5

Currently, a lot of research is devoted to system design, and little work is done on requirements analysis. Besides going from specification to design, one of our main objectives is to show how an application problem ...

Keywords: application-oriented general-purpose multiprocessors, hardware-software modeling and cosynthesis, requirements analysis

2 [A dynamic network architecture](#)
[Sean W. O'Malley](#), [Larry L. Peterson](#)

 May 1992 **Transactions on Computer Systems (TOCS)**, Volume 10 Issue 2

Publisher: ACM

 Full text available: [Pdf](#) (401.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [terms](#), [review](#)
Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 155, Citation Count: 48

Network software is a critical component of any distributed system. Because of its complexity, network software is commonly layered into a hierarchy of protocols, or generally, into a protocol graph. Typical protocol graphs—including ...

Keywords: composibility, dynamic configuration, reuse

3 [Implicit phasing for R6RS libraries](#)
[Abdulaziz Ghuloum](#), [R. Kent Dybvig](#)

 October 2007 **ICFP '07: Proceedings of the 12th ACM SIGPLAN international conference on Functional programming**
Publisher: ACM

 Full text available: [Pdf](#) (255.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)
Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 46, Citation Count: 0

The forthcoming Revised⁶ Report on Scheme differs from previous reports in that the language it describes is structured as a set of libraries. It also provides a syntax for defining new portable libraries. The same library may export both ...

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Keywords: binding phases, hygienic macros, libraries, macro expansion, scheme

Also published in:

October 2007 **SIGPLAN Notices** Volume 42 Issue 9

4 [Secure on-demand grid computing](#)

[M. Smith](#), [M. Schmidt](#), [N. Fallenbeck](#), [T. Dörnemann](#), [C. Schridde](#), [B. Freisleben](#)

March 2009 **Future Generation Computer Systems** , Volume 25 Issue 3

Publisher: Elsevier Science Publishers B. V.

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

In this paper, a novel approach for enabling Grid users to autonomously install and custom software on demand using an image creation station is presented, while at the same time offering new security mechanisms to protect both software and data ...

Keywords: Grid security, Grid workflows, On-demand computing, Sandboxing, Ser orientation, Trusted computing, Virtualization

5 [A constraint-based product configurator for mass customisation](#)

[Helen Xie](#), [Philip Henderson](#), [Michael Kernahan](#)

June 2006 **International Journal of Computer Applications in Technology** , Volume 13 Issue 1/2

Publisher: Inderscience Publishers


Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

To stay competitive, many manufacturers have to adapt their business models to mass customisation, which enables customers to order customised products tailored to their specific needs. One of the key enabling technologies for the successful implementation ...


Keywords: CSP, constraint satisfaction problem, distributed manufacturing, mass customisation, product configuration

6 [Modeling methodology for integrated simulation of embedded systems](#)

 [Akos Ledeczki](#), [James Davis](#), [Sandeep Neema](#), [Aditya Agrawal](#)

January 2003 **Transactions on Modeling and Computer Simulation (TOMACS)** , Volume 13 Issue 1

Publisher: ACM

Full text available:  [Pdf](#) (951.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 102, Citation Count: 6

Developing a single embedded application involves a multitude of different development tools including several different simulators. Most tools use different abstractions, have their own formalisms to represent the system under development, utilize different ...

Keywords: Simulation, domain specific languages, metamodeling, model integration, computing, modeling, simulation integration

7 [Operational support systems — glossary](#)


[Ian G. Dufour](#)

January 1997 **BT Technology Journal** , Volume 15 Issue 1**Publisher:** Kluwer Academic PublishersFull text available:  [Publisher Site](#) Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0**8** [A model-based extensible framework for efficient application design using FPG](#) [Sumit Mohanty, Viktor K. Prasanna](#)April 2007 **Transactions on Design Automation of Electronic Systems (TODAES)**


Volume 12 Issue 2

Publisher: ACMFull text available:  [Pdf](#) (373.79 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 91, Citation Count: 0


For an FPGA designer, several choices are available in terms of target FPGA devices cores, algorithms, synthesis options, runtime reconfiguration, degrees of parallelism among others, while implementing a design. Evaluation of design alternatives ...

Keywords: Modeling, design tool, extensible, reuse**9** [Impact of software engineering research on the practice of software configurati](#)
[management](#) [Jacky Estublier, David Leblang, André van der Hoek, Reidar Conradi, Geoffrey Clemm, Walter Tichy, Darcy Wiborg-Weber](#)October 2005 **Transactions on Software Engineering and Methodology (TOSEM)**

Volume 14 Issue 4

Publisher: ACMFull text available:  [Pdf](#) (350.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [terms](#), [review](#)**Bibliometrics:** Downloads (6 Weeks): 98, Downloads (12 Months): 1021, Citation Count: 11

Software Configuration Management (SCM) is an important discipline in professional software development and maintenance. The importance of SCM has increased as programs have become larger, more long lasting, and more mission and life critical. article ...

Keywords: Versioning, data model, process support, research impact, software configuration management, software engineering, workspace management**10** [Modeling optimistic concurrency using quantitative dependence analysis](#) [Christoph von Praun, Rajesh Bordawekar, Calin Cascaval](#)February 2008 **PPoPP '08: Proceedings of the 13th ACM SIGPLAN Symposium on Principles and practice of parallel programming****Publisher:** ACMFull text available:  [Pdf](#) (435.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index term](#)**Bibliometrics:** Downloads (6 Weeks): 25, Downloads (12 Months): 260, Citation Count: 0

This work presents a quantitative approach to analyze parallelization opportunities in programs with irregular memory access where potential data dependencies mask available parallelism. The model captures data and causal dependencies among critical ...

Keywords: available parallelism, dependence analysis, dependence density, implicit

parallelism, optimistic concurrency, program parallelization, transactional memory

11 [Using Software Distributions to Understand the Relationship among Free and C Source Software Projects](#)

[Daniel M. German](#)

May 2007 **MSR '07**: Proceedings of the Fourth International Workshop on Mining Software Repositories


Publisher: IEEE Computer Society

Full text available:  [Pdf](#) (200.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 77, Citation Count: 0


Success in the open source software world has been measured in terms of metrics such as number of downloads, number of commits, number of lines of code, number of participants, etc. These metrics tend to discriminate towards applications that are small ...

12 [MONAD: a flexible architecture for multi-agent control](#)

 [Thuc Vu](#), [Jared Go](#), [Gal Kaminka](#), [Manuela Veloso](#), [Brett Browning](#)

July 2003 **AAMAS '03**: Proceedings of the second international joint conference on Autonomous agents and multiagent systems

Publisher: ACM


Full text available:  [Pdf](#) (583.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 30, Citation Count: 2

Research in multi-agent systems has led to the development of many multi-agent control architectures. However, we believe that there is currently no known optimal structure for multi-agent control since the effectiveness of any particular architecture


Keywords: arbitration, behavior-based control, collaboration, robot teams, team-oriented programming, teamwork

13 [Version models for software configuration management](#)

 [Reidar Conradi](#), [Bernhard Westfechtel](#)

June 1998 **Computing Surveys (CSUR)**, Volume 30 Issue 2

Publisher: ACM

Full text available:  [Pdf](#) (483.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 107, Downloads (12 Months): 836, Citation Count: 65

After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underl

Keywords: changes, configuration rules, configurations, revisions, variants, version

14 [Value complete, column complete, predicate complete](#)

[Theo Härder](#), [Andreas Böhmann](#)

July 2008 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 17 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  [Pdf](#) (740.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 29, Citation Count: 0


Caching is a proven remedy to enhance scalability and availability of software system as well as to reduce latency of user requests. In contrast to Web caching where single Web objects are accessed and kept ready somewhere in caches in the user-to-server

Keywords: Cache constraints, Database caching, Predicate completeness, Query processing

- 15** [Autonomic application management for large scale MPI programs](#)
[Aline P. Nascimento, Alexandre C. Sena, Jacques A. Silva, Daniela O. C. Vianna, Cristiane Boeres, Vinod E. F. Rebello](#)
 December 2008 **International Journal of High Performance Computing and Networking**, Volume 5 Issue 4
Publisher: Inderscience Publishers
 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

Computational grids aim to aggregate significant numbers of resources to provide sufficient, but low cost, computational power to various applications. Writing applications capable of executing efficiently in grids, is however extremely difficult. Their ...

Keywords: MPI applications, autonomic applications, fault-tolerant systems, grid computing, hybrid scheduling, message passing interface

- 16** [picoArray Technology: The Tool's Story](#)
[Andrew Duller, Daniel Towner, Gajinder Panesar, Alan Gray, Will Robbins](#)
 March 2005 **DATE '05: Proceedings of the conference on Design, Automation and Test in Europe - Volume 3**, Volume 3
Publisher: IEEE Computer Society
 Full text available:  [Pdf](#) (249.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 12, Citation Count: 0

This paper briefly describes the picoArray₂ architecture, and in particular the deterministic internal communication fabric. The methods that have been developed for debugging and verifying systems using devices from the picoArray family are explained ...

- 17** [Remote control: distributed application configuration, management, and visualization with plush](#)
[Jeannie Albrecht, Ryan Braud, Darren Dao, Nikolay Topilski, Christopher Tuttle, Alex C. Snoeren, Amin Vahdat](#)
 November 2007 **LISA'07: Proceedings of the 21st conference on Large Installation System Administration Conference**
Publisher: USENIX Association
 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

Support for distributed application management in large-scale networked environments remains in its early stages. Although a number of solutions exist for subtasks of application deployment, monitoring, maintenance, and visualization in distributed environments, ...

- 18** [Hierarchical Collective Agent Network \(HCAN\) for efficient fusion and management of multiple networked sensors](#)

Qiuning Zhu, Stuart L. Aldridge, Tomas N. Resha

July 2007 **Information Fusion**, Volume 8 Issue 3

Publisher: Elsevier Science Publishers B. V.


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

Agent-based software systems and applications are constructed by integrating diver sets of components that are intelligent, heterogeneous, distributed, and concurrent. paper describes a multi-agent system to assure the operation efficiency and ...

Keywords: Agent technology, Data fusion, Hierarchical collective agent network, Learning and adaptive control, Sensor management

19 [EVE: a CAD tool for manual placement and pipelining assistance of FPGA circuit](#)

 William Chow, Jonathan Rose

February 2002 **FPGA '02: Proceedings of the 2002 ACM/SIGDA tenth international symposium on Field-programmable gate arrays**

Publisher: ACM

Full text available:  Pdf (352.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 15, Citation Count: 1

As FPGAs push ever deeper into mainstream digital design, there is an increasing demand for high-performance circuits. This paper describes a manual editor, called EVE, which can assist a designer to perform manual packing, placement and pipelining of ...

Keywords: FPGA, event horizon, manual placement and pipelining, programmable

20 [Application-specific Processor Architecture: Then and Now](#)

[Peter Cappello](#)

November 2008 **Journal of Signal Processing Systems**, Volume 53 Issue 1-2

Publisher: Kluwer Academic Publishers

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0





We first relate the architecture of systolic arrays to the technological and economic design forces acting on architects of special-purpose systems some 20 years ago. We then observe that those same design forces now are bearing down on the architects

Keywords: FPGA, application-specific processor, computer architecture, field-programmable gate array, general-purpose processor, processor array, systolic array taxonomy

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